



## Sobni termostati i Smart Home regulacija

Wi-Fi i RF rješenja za grijanje i hlađenje

Upravljanje putem mobilne aplikacije (Tuya / Smart Life)

Moderni dizajn prilagođen svakom interijeru

Napredni algoritmi za uštedu energije

Službena tehnička dokumentacija i katalog proizvoda



# About BEOK

CE RoHS RED EAC

Shanghai Beok Controls Co., Ltd, founded in 2010, has Extensive experience to integrate the research, development and production of HVAC control system products. We adhere to the strict and practical product requirements, and take a serious and responsible attitude to provide every customer with better products and better services.



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# BEOK Service



Customize  
Program



Customize  
App



Design/  
Printing



Customize  
Product Color



Customize  
Package



ODM  
Service

## THERMOSTAT



1 Underfloor Heating Thermostat

2 Gas Boiler Thermostat

3 Fan Coil Thermostat

# Main Functions of BEOK Thermostats



### App control

(Wi-Fi model only)

Control the heater remotely by smart phone.



### Voice control

(Wi-Fi model only)

Controlling the heater via smart speakers.



### Programmable schedule

Set the temperature for each time of day and make it cycle automatically every day.



### Temperature calibration

Calibrate thermostat display to actual room temperature.



### Child lock

Lock the keypad when you need it to avoid misuse.



### Non-volatile memory

Various current settings of the thermostat can be memorized in case of power failure.



### Anti-freeze

Maintains room temperature at 5°C to prevent electronic devices from freezing. Can be turned on or off in the advanced settings.



### Adjustable backlight

The brightness of the backlight can be adjusted so that the glare does not affect your rest.



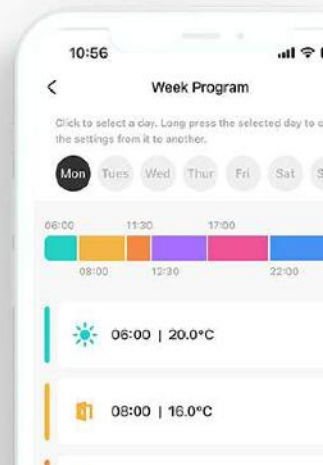
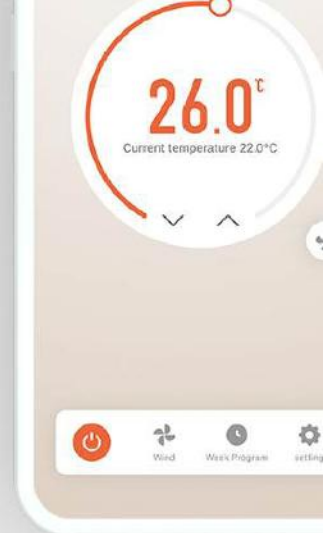
### Constant temperature

The temperature hysteresis can be set to a minimum of 0.5°C, effectively preventing indoor temperature differences.

Individual functions may vary depending on the model, please refer the product introduction page for details.

BEOK Products

# Thermostat App Interface



## Underfloor Heating Thermostat

Controls include:

- **Electric underfloor heating:** electric heating mat, electric heating film or electric heating cable;
- **Water underfloor heating:** electric valves or actuators.





**TS4**

☞ P22



**TGT70**

☞ P23



**TDS21**

☞ P23



**TDS23**

☞ P23



**TOL313**

☞ P23



**TDS72**

☞ P26



**TDS75**

☞ P26



**TGT79**

☞ P26



**TC38**

☞ P28

## Gas Boiler Thermostat

### Controls include:

- Wired thermostat for gas boiler
- Wireless thermostat for gas boiler

### Wired Thermostat for Gas Boiler



**TOL47-WPB**

☞ P31



**TGM50-WPB**

☞ P32



**TGP53-WPB**

☞ P33



**TGP508-WPB**

☞ P33



**TGP51G-WPB**

☞ P35





**BOT-R3W**

🏠 P53



**BOT-R5W**

🏠 P54



**BOT-R8W**

🏠 P55



**BOT-R15W**

🏠 P56

## Wireless Thermostat for Gas Boiler



**BOT-R7X**

🏠 P58



**BOT-306RF-WIFI**

🏠 P59



**BOT-X306**

🏠 P59



**BOT-R6X**

🏠 P61



**BOT-506X**

🏠 P62



**BOT-R3X**

🏠 P63



**BOT-R8X**

🏠 P64



**BOT-R15X**

🏠 P65



**BOT-R5X**

🏠 P66

# Fan Coil Thermostat

## Controls include:

- Thermostat for 2-pipe fan Coil
- Thermostat for 4-pipe fan Coil



**TGT70-AC**

P68



**TDS21-AC**

P68



**TDS23-AC**

P68



**TGP51G-AC**

P70



**TOL43-AC**

P71



**TOL63R-AC**

P72



**TOL313-AC**

P73



# Underfloor Heating Thermostat

There are two options for underfloor heating thermostats, for electric heating and for water heating.

## For Electric Underfloor Heating



## For Water Underfloor Heating



# BEOK Underfloor Heating Thermostat



86x86x14mm. Frosted case with large anti-reflective LCD screen. 5 mechanical keys.

Work with Tuya apps | iOS & Android

Support smart speakers



## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
Water heater 3A  
Electric heater 16A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

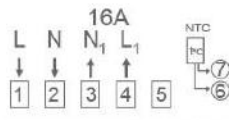
**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

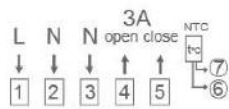
**Temperature sensor**  
NTC

## Wiring Diagram

**For Electric Underfloor Heating**



**For Water Underfloor Heating**



Suitable for standard 86mm junction box or European 60mm box.





## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TOL47-EP	✓	✓	✗	✗	✓
TOL47-WP	✓	✗	✓	✗	Optional
TOL47-WIFI-EP	✓	✓	✗	✓	✓
TOL47-WIFI-WP	✓	✗	✓	✓	Optional

# BEOK Underfloor Heating Thermostat

Model No. **TGM50** 86x86x12.5mm. Frosted one-piece body with 4 touch keys. 2 colors optional.

Work with Tuya apps   | iOS & Android

 Zigbee Model Optional | Support smart speakers   



### Open-window Detection

This thermostat stops heating when there is a sudden drop in room temperature to minimize wasted energy due to open windows.

## Technical Data

**Power supply**  
AC100~240V;  
50/60Hz

**Working environment**  
-5~50°C

**Load current**  
Water heater 3A  
Electric heater 16A

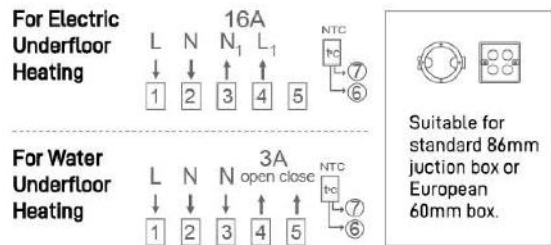
**Set temp. range**  
5~95°C (default 60°C)

**External material**  
PC+ABS (flame retardant)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

**Temperature sensor**  
NTC





## Wiring Diagram



## Selection Table

Model	Power Supply	Application		Remote Control		Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	Zigbee	
TGM50-EP / TGM50B-EP	✓	✓	✗	✗	✗	✓
TGM50-WP / TGM50B-WP	✓	✗	✓	✗	✗	Optional
TGM50-WIFI-EP / TGM50B-WIFI-EP	✓	✓	✗	✓	✗	✓
TGM50-WIFI-WP / TGM50B-WIFI-WP	✓	✗	✓	✓	✗	Optional
TGM50-ZB-EP / TGM50B-ZB-EP	✓	✓	✗	✗	✓	✓
TGM50-ZB-WP / TGM50B-ZB-WP	✓	✗	✓	✗	✓	Optional

# TGP5 Series Thermostats

Work with Tuya apps   | iOS & Android | Support smart speakers   

## Technical Data

- Power supply**  
AC100~240V; 50/60Hz
- Load current**  
Water heater 3A  
Electric heater 16A
- External material**  
PC+ABS (flame retardant)
- Working environment**  
-5~50°C
- Set temp. range**  
5~95°C (default 60°C)
- Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)
- Temperature sensor**  
NTC

## Wiring Diagram



TGP53



TGP508



Model No.  
**TGP53**



86x86x13mm.  
Glass screen, 3 subtle shiny silver physical buttons with icons that light up when woken up.

### Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGP53-EP	✓	✓	✗	✗	✓
TGP53-WP	✓	✗	✓	✗	Optional
TGP53-WIFI-EP	✓	✓	✗	✓	✓
TGP53-WIFI-WP	✓	✗	✓	✓	Optional



Model No.  
**TGP508**



86x86x14mm. 3 vertically distributed touch keys.

### Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGP508-EP	✓	✓	✗	✗	✓
TGP508-WP	✓	✗	✓	✗	Optional
TGP508-WIFI-EP	✓	✓	✗	✓	✓
TGP508-WIFI-WP	✓	✗	✓	✓	Optional

# BEOK Underfloor Heating Thermostat



Model No.  
**TGP51G**



86x86x13mm.  
Glass screen, 4 touch keys with silver icons.

Work with Tuya apps or BEOK Home | iOS & Android

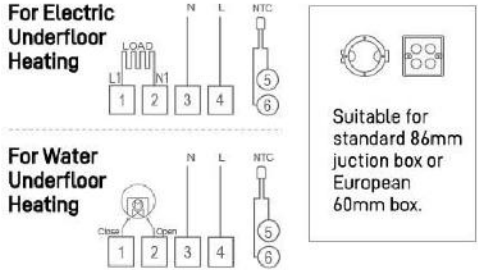
Support smart speakers



## Technical Data

- Power supply**  
AC200~240V; 50/60Hz
- Set temp. range**  
5~95°C (default 60°C)
- Load current**  
Water heater 3A  
Electric heater 16A
- Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)
- External material**  
PC+ABS (flame retardant)
- Temperature sensor**  
NTC
- Working environment**  
-5~50°C

## Wiring Diagram



## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGP51G-EP	✓	✓	✗	✗	✓
TGP51G-WP	✓	✗	✓	✗	Optional
TGP51G-WIFI-EP	✓	✓	✗	✓	✓
TGP51G-WIFI-WP	✓	✗	✓	✓	Optional

# BEOK Underfloor Heating Thermostat

Model No.

## TGW60

86x86x12.5mm. LCD glass display with touch keys.  
2 colors optional.

Work with Tuya apps   | iOS & Android

Support smart speakers   



TGW60W



TGW60B



## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
Water heater 3A  
Electric heater 16A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

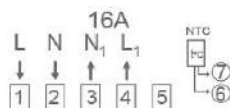
**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

**For Electric Underfloor Heating**



**For Water Underfloor Heating**



Suitable for standard 86mm junction box or European 60mm box.

## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGW60W-EP / TGW60B-EP	✓	✓	✗	✗	✓
TGW60W-WP / TGW60B-WP	✓	✗	✓	✗	Optional
TGW60W-WIFI-EP / TGW60B-WIFI-EP	✓	✓	✗	✓	✓
TGW60W-WIFI-WP / TGW60B-WIFI-WP	✓	✗	✓	✓	Optional

# TDR8 Series Thermostats

Work with Tuya apps



iOS & Android

Support smart speakers



alexa



## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
Water heater 3A  
Electric heater 16A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC



## Wiring Diagram

**For Electric Underfloor Heating**



**For Water Underfloor Heating**



Suitable for standard 86mm junction box or European 60mm box



TGR86



TGR85



TDR83



TDR89

Model No.

# TGR85

86x90x14mm.

Glass mirror surface with touch keys.

 Zigbee Model Optional



## Selection Table

Model	Power Supply	Application		Remote Control		Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	Zigbee	External Sensor
TGR85-EP	✓	✓	✗	✗	✗	✓
TGR85-WP	✓	✗	✓	✗	✗	Optional
TGR85-WIFI-EP	✓	✓	✗	✓	✗	✓
TGR85-WIFI-WP	✓	✗	✓	✓	✗	Optional
TGR85-ZB-EP	✓	✓	✗	✗	✓	✓
TGR85-ZB-WP	✓	✗	✓	✗	✓	Optional

Model No.

# TDR83

86x86x18mm.

Touch keys. 2 colors optional.



## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDR83W-EP	✓	✓	✗	✗	✓
TDR83W-WP	✓	✗	✓	✗	Optional
TDR83W-WIFI-EP	✓	✓	✗	✓	✓
TDR83W-WIFI-WP	✓	✗	✓	✓	Optional
TDR83B-EP	✓	✓	✗	✗	✓
TDR83B-WP	✓	✗	✓	✗	Optional
TDR83B-WIFI-EP	✓	✓	✗	✓	✓
TDR83B-WIFI-WP	✓	✗	✓	✓	Optional

Model No.

# TGR86

86x86x18mm.

Glass mirror surface with touch keys.



## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGR86-EP	✓	✓	✗	✗	✓
TGR86-WP	✓	✗	✓	✗	Optional
TGR86-WIFI-EP	✓	✓	✗	✓	✓
TGR86-WIFI-WP	✓	✗	✓	✓	Optional

Model No.

# TDR89

86x86x14mm.

2 colors optional. TDR89W: white backlight with silver touch keys.

TDR89B: negative display with touch keys that glows red when woken up.



## Selection Table

Model	Power Supply	Application		Remote Control		Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	Zigbee	External Sensor
TDR89W-EP	✓	✓	✗	✗	✗	✓
TDR89W-WP	✓	✗	✓	✗	✗	Optional
TDR89W-WIFI-EP	✓	✓	✗	✓	✗	✓
TDR89W-WIFI-WP	✓	✗	✓	✓	✗	Optional
TDR89W-ZB-EP	✓	✓	✗	✗	✓	✓
TDR89W-ZB-WP	✓	✗	✓	✗	✓	Optional
TDR89B-EP	✓	✓	✗	✗	✗	✓
TDR89B-WP	✓	✗	✓	✗	✗	Optional
TDR89B-WIFI-EP	✓	✓	✗	✓	✗	✓
TDR89B-WIFI-WP	✓	✗	✓	✓	✗	Optional
TDR89B-ZB-EP	✓	✓	✗	✗	✓	✓
TDR89B-ZB-WP	✓	✗	✓	✗	✓	Optional

# BEOK Underfloor Heating Thermostat

Model No. **TS4** 86x86x14mm. 2 colors optional.  
 TS4W: Black screen with glossy white touch key area.  
 TS4G: Black screen with frosted gray touch key area.

Work with Tuya apps   | iOS & Android

Support smart speakers   



## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
Water heater 3A  
Electric heater 16A

**External material**  
PC+ABS (flame retardant)

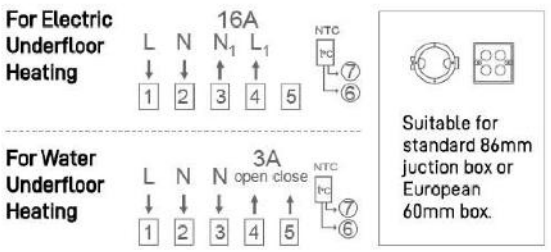
**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram



## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 100~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TS4W-EP / TS4G-EP	✓	✓	✗	✗	✓
TS4W-WP / TS4G-WP	✓	✗	✓	✗	Optional
TS4W-WIFI-EP / TS4G-WIFI-EP	✓	✓	✗	✓	✓
TS4W-WIFI-WP / TS4G-WIFI-WP	✓	✗	✓	✓	Optional

# TDS Series Thermostats

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers  

## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
Water heater 3A  
Electric heater 16A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Electric Underfloor Heating



For Water Underfloor Heating



Suitable for standard 86mm junction box or European 60mm box.



TGT70



TDS21



TDS23



TOL313

Model No.

# TGT70

86x86x16mm.

Glass screen with touch keys.

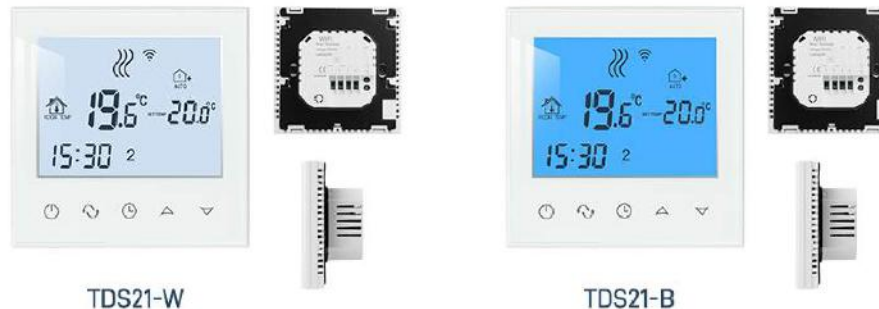


Model No.

# TDS21

86x86x16mm.

Touch keys. 2 backlight colors optional.



## Selection Table

## Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TGT70-EP	✓	✓	✗	✗	✓
TGT70-WP	✓	✗	✓	✗	Optional
TGT70-WIFI-EP	✓	✓	✗	✓	✓
TGT70-WIFI-WP	✓	✗	✓	✓	Optional

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDS21-EP-W	✓	✓	✗	✗	✓
TDS21-WP-W	✓	✗	✓	✗	Optional
TDS21-WIFI-EP-W	✓	✓	✗	✓	✓
TDS21-WIFI-WP-W	✓	✗	✓	✓	Optional
TDS21-EP-B	✓	✓	✗	✗	✓
TDS21-WP-B	✓	✗	✓	✗	Optional
TDS21-WIFI-EP-B	✓	✓	✗	✓	✓
TDS21-WIFI-WP-B	✓	✗	✓	✓	Optional

Model No.

# TDS23

86x86x16mm.

Touch keys. 2 backlight colors optional.



TDS23-W



TDS23-B



## Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TDS23-EP-W	✓	✓	✗	✗	✓
TDS23-WP-W	✓	✗	✓	✗	Optional
TDS23-WIFI-EP-W	✓	✓	✗	✓	✓
TDS23-WIFI-WP-W	✓	✗	✓	✓	Optional
TDS23-EP-B	✓	✓	✗	✗	✓
TDS23-WP-B	✓	✗	✓	✗	Optional
TDS23-WIFI-EP-B	✓	✓	✗	✓	✓
TDS23-WIFI-WP-B	✓	✗	✓	✓	Optional

Model No.

# TOL313

86x86x16mm.

5 Mechanical keys. 2 backlight colors optional.



TOL313-W



TOL313-B



## Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TOL313-EP-W	✓	✓	✗	✗	✓
TOL313-WP-W	✓	✗	✓	✗	Optional
TOL313-WIFI-EP-W	✓	✓	✗	✓	✓
TOL313-WIFI-WP-W	✓	✗	✓	✓	Optional
TOL313-EP-B	✓	✓	✗	✗	✓
TOL313-WP-B	✓	✗	✓	✗	Optional
TOL313-WIFI-EP-B	✓	✓	✗	✓	✓
TOL313-WIFI-WP-B	✓	✗	✓	✓	Optional

# TDS7 Series Thermostats

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers  

## Technical Data

### Power supply

AC200~240V; 50/60Hz

### Load current

Water heater 3A

Electric heater 16A

### External material

PC+ABS (flame retardant)

### Working environment

-5~50°C

### Set temp. range

5~95°C (default 60°C)

### Temperature hysteresis

±0.5~±9.9°C Adjustable

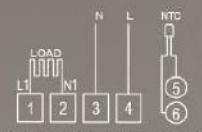
(default ±1°C)

### Temperature sensor

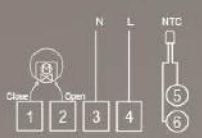
NTC

## Wiring Diagram

### For Electric Underfloor Heating



### For Water Underfloor Heating



 Suitable for standard 86mm junction box or European 60mm box.



TDS72



TDS75



TGT79



86x86x13mm.  
Frosted tactile shell with mechanical keys.

### Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200-240V	Electric Heating (16A)	Water Heating (3A)	Wi-Fi	External Sensor
TDS72-EP	✓	✓	✗	✗	✓
TDS72-WP	✓	✗	✓	✗	Optional
TDS72-WIFI-EP	✓	✓	✗	✓	✓
TDS72-WIFI-WP	✓	✗	✓	✓	Optional



86x86x15mm.  
Glossy panel with touch keys.

### Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200-240V	Electric Heating (16A)	Water Heating (3A)	Wi-Fi	External Sensor
TDS75-EP	✓	✓	✗	✗	✓
TDS75-WP	✓	✗	✓	✗	Optional
TDS75-WIFI-EP	✓	✓	✗	✓	✓
TDS75-WIFI-WP	✓	✗	✓	✓	Optional



86x86x15mm.  
Glossy panel with touch keys. Negative display screen.

### Selection Table

Model	Power Supply	Application		Recmote Control	Additional
	AC 200-240V	Electric Heating (16A)	Water Heating (3A)	Wi-Fi	External Sensor
TGT79-EP	✓	✓	✗	✗	✓
TGT79-WP	✓	✗	✓	✗	Optional
TGT79-WIFI-EP	✓	✓	✗	✓	✓
TGT79-WIFI-WP	✓	✗	✓	✓	Optional

# BEOK Underfloor Heating Thermostat

Model No. **TC38** 86x86x15mm. 2 colors optional. White: glossy panel with silver touch keys. Black: dark mirrored panel with silver touch keys.

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers   



TCW38



TCB38



## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
Water heater 3A  
Electric heater 16A

**External material**  
PC+ABS (flame retardant)

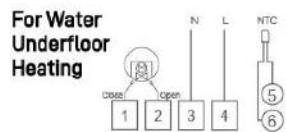
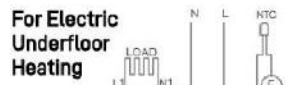
**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram



  
Suitable for standard 86mm junction box or European 60mm box.

## Selection Table

Model	Power Supply	Application		Remote Control	Additional
	AC 200~240V	Electric Heating(16A)	Water Heating(3A)	Wi-Fi	External Sensor
TCW38-EP / TCB38-EP	✓	✓	✗	✗	✓
TCW38-WP / TCB38-WP	✓	✗	✓	✗	Optional
TCW38-WIFI-EP / TCB38-WIFI-EP	✓	✓	✗	✓	✓
TCW38-WIFI-WP / TCB38-WIFI-WP	✓	✗	✓	✓	Optional

# Gas Boiler Thermostat

There are two types of gas boiler thermostats, wired and wireless.

## Wired Thermostat for Gas Boiler



## Wireless RF Thermostat for Gas Boiler



## Gas Boiler Thermostat

There are two types of gas boiler thermostats, wired and wireless.

## Wired Thermostat for Gas Boiler

The thermostat is connected directly to the boiler.

Gas boiler with dry contact

⚡ AC 230 V



Passive connection

Model No.  
**TOL47-WPB**



86x86x14mm. Frosted case with large anti-reflective LCD screen. 5 mechanical keys.

Work with Tuya apps | iOS & Android

Support smart speakers



### Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

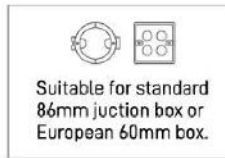
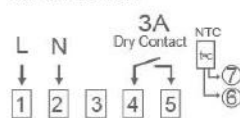
**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

**Temperature sensor**  
NTC

### Wiring Diagram

For Gas Boiler



### Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TOL47-WPB	✓	✓	✗	✗
TOL47-WIFI-WPB	✓	✓	✓	✗

Model No. **TGM50-WPB** 86x86x12.5mm. Frosted one-piece body with touch keys.

Work with Tuya apps  | iOS & Android

 **zigbee** | Zigbee Model Optional

Support smart speakers   



TGM50-WPB



TGM50B-WPB



### Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

### Special Feature



### Open-window Detection

This thermostat stops heating when there is a sudden drop in room temperature to minimize wasted energy due to open windows.

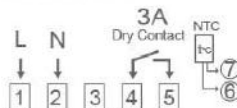


### Selection Table

Model	Power Supply	Application	Remote Control		Additional
	AC 100~240V	Gas Boiler	Wi-Fi	Zigbee	External Sensor
TGM50-WPB	✓	✓	×	×	×
TGM50-WIFI-WPB	✓	✓	✓	×	×
TGM50-ZB-WPB	✓	✓	×	✓	×
TGM50B-WPB	✓	✓	×	×	×
TGM50B-WIFI-WPB	✓	✓	✓	×	×
TGM50B-ZB-WPB	✓	✓	×	✓	×

### Wiring Diagram




For Gas Boiler



Suitable for standard 86mm junction box or European 60mm box.

# TGP5 Series Boiler Thermostats

Work with Tuya apps   | iOS & Android

Support smart speakers   

## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC



## Wiring Diagram

For Gas Boiler



Suitable for standard  
86mm junction box or  
European 60mm box.



TGP53-WPB



TGP508-WPB



Model No.  
**TGP53-WPB**



86x86x13mm.

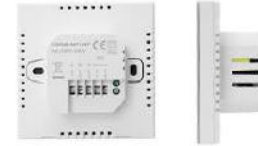
Glass screen, 3 subtle shiny silver physical buttons with icons that light up when woken up.

### Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGP53-WPB	✓	✓	✗	✗
TGP53-WIFI-WPB	✓	✓	✓	✗



Model No.  
**TGP508-WPB**



86x86x14mm.

3 vertically distributed touch keys.

### Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGP508-WPB	✓	✓	✗	✗
TGP508-WIFI-WPB	✓	✓	✓	✗

Model No.

# TGP51G-WPB

86x86x13mm. Glass screen, 4 touch keys with silver icons.

Work with Tuya apps or BEOK Home    | iOS & Android

Support smart speakers   



## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

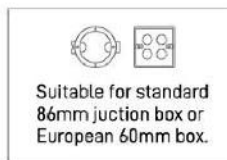
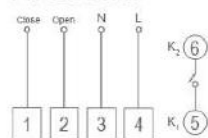
**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler



## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 200-240V	Gas Boiler	Wi-Fi	External Sensor
TGP51G-WPB	✓	✓	✗	✗
TGP51G-WIFI-WPB	✓	✓	✓	✗

Model No.

# TGW60-WPB

86x86x12.5mm. LCD glass display with touch keys.  
2 colors optional.

Work with Tuya apps   iOS & Android

Support smart speakers   



TGW60W-WPB



TGW60B-WPB



## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

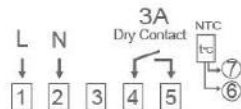
**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler



Suitable for standard  
86mm junction box or  
European 60mm box.

## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TGW60W-WPB	✓	✓	✗	✗
TGW60W-WIFI-WPB	✓	✓	✓	✗
TGW60B-WPB	✓	✓	✗	✗
TGW60B-WIFI-WPB	✓	✓	✓	✗

# TDR8 Series Gas Boiler Thermostats

Work with Tuya apps   | iOS & Android

Support smart speakers   

## Technical Data

### Power supply

AC100~240V; 50/60Hz

### Load current

3A

### External material

PC+ABS (flame retardant)

### Working environment

-5~50°C

### Set temp. range

5~95°C (default 60°C)

### Temperature hysteresis

±0.5~±9.9°C Adjustable (default ±1°C)

### Temperature sensor

NTC

## Wiring Diagram

### For Gas Boiler



TGR85-WPB



TDR83-WPB



TGR86-WPB



TDR89-WPB

Model No.

# TGR85-WPB

86x90x14mm.

Glass mirror surface with touch keys.



## Selection Table

Model	Power Supply	Application	Recmote Control		Additional
	AC 100-240V		Gas Boiler	Wi-Fi	
TGR85-WPB	✓	✓	✗	✗	✗
TGR85-WIFI-WPB	✓	✓	✓	✗	✗
TGR85-ZB-WPB	✓	✓	✗	✓	✗

Model No.

# TDR83-WPB

86x86x18mm.

Touch keys. 2 colors optional.



TDR83W-WPB

TDR83B-WPB

## Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 100-240V		Gas Boiler	
TDR83W-WPB	✓	✓	✗	✗
TDR83W-WIFI-WPB	✓	✓	✓	✗
TDR83B-WPB	✓	✓	✗	✗
TDR83B-WIFI-WPB	✓	✓	✓	✗

Model No.

# TGR86-WPB

86x90x14mm.

Glass mirror surface with touch keys.



## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100-240V	Gas Boiler	Wi-Fi	External Sensor
TGR86-WPB	✓	✓	✗	✗
TGR86-WIFI-WPB	✓	✓	✓	✗

Model No.

# TDR89-WPB

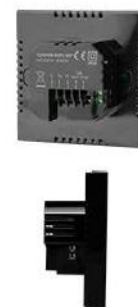
86x86x14mm. 2 colors optional. TDR89W: white backlight with silver touch keys. TDR89B: negative display with touch keys that glows red when woken up.



TDR89W-WPB



TDR89B-WPB



## Selection Table

Model	Power Supply	Application	Remote Control		Additional
	AC 100-240V	Gas Boiler	Wi-Fi	Zigbee	External Sensor
TDR89W-WPB	✓	✓	✗	✗	✗
TDR89W-WIFI-WPB	✓	✓	✓	✗	✗
TDR89W-ZB-WPB	✓	✓	✗	✓	✗
TDR89B-WPB	✓	✓	✗	✗	✗
TDR89B-WIFI-WPB	✓	✓	✓	✗	✗
TDR89B-ZB-WPB	✓	✓	✗	✓	✗

Model No.

# TS4-WPB

86x86x14mm. 2 colors optional.  
 TS4W: Glossy white touch key area.  
 TS4G: Frosted gray touch key area.

Work with Tuya apps   | iOS & Android

Support smart speakers   



## Technical Data

**Power supply**  
AC100~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

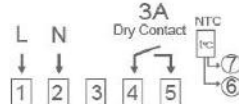
**Set temp. range**  
5~95°C (default 60°C)


**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler







 Suitable for standard 86mm junction box or European 60mm box.

## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 100~240V	Gas Boiler	Wi-Fi	External Sensor
TS4W-WPB	✓	✓	✗	✗
TS4W-WIFI-WPB	✓	✓	✓	✗
TS4G-WPB	✓	✓	✗	✗
TS4G-WIFI-WPB	✓	✓	✓	✗

# TDS Series Gas Boiler Thermostats

Work with Tuya apps or BEOK Home   | IOS & Android

Support smart speakers  

## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC



## Wiring Diagram

For Gas Boiler



Suitable for standard  
86mm junction box or  
European 60mm box.



TGT70-WPB



TDS21-WPB



TDS23-WPB



BOT-313WIFI

Model No.

# TGT70-WPB

86x86x16mm.  
Glass screen  
with touch keys.



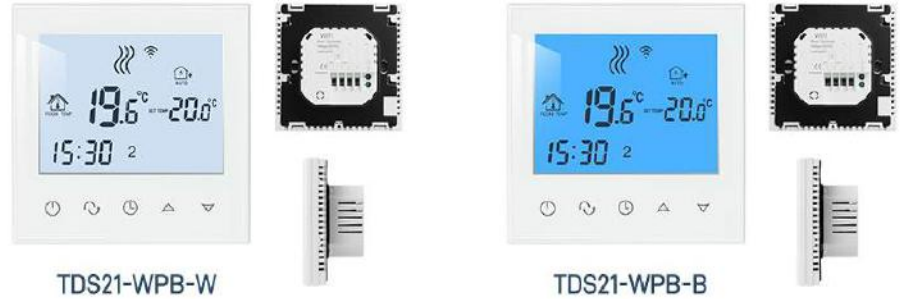
## Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TGT70-WPB	✓	✓	✗	✗
TGT70-WIFI-WPB	✓	✓	✓	✗

Model No.

# TDS21-WPB

86x86x16mm.  
Touch keys. 2 backlight colors optional



## Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TDS21-WPB-W	✓	✓	✗	✗
TDS21-WIFI-WPB-W	✓	✓	✓	✗
TDS21-WPB-B	✓	✓	✗	✗
TDS21-WIFI-WPB-B	✓	✓	✓	✗

Model No.

# TDS23-WPB

86x86x16mm.  
Touch keys. 2 backlight colors optional.



TDS23-WPB-W



TDS23-WPB-B

## Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TDS23-WPB-W	✓	✓	✗	✗
TDS23-WIFI-WPB-W	✓	✓	✓	✗
TDS23-WPB-B	✓	✓	✗	✗
TDS23-WIFI-WPB-B	✓	✓	✓	✗

Model No.

# BOT-313WIFI

86x86x16mm.  
5 Mechanical keys. 2 backlight colors optional.



BOT-313WIFI-WH



BOT-313WIFI-BL

## Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
BOT-313WIFI-WH	✓	✓	✓	✗
BOT-313WIFI-BL	✓	✓	✓	✗

# TDS7 Series Gas Boiler Thermostats

Work with Tuya apps  iOS & Android

Support smart speakers   

## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler



Suitable for standard 86mm junction box or European 60mm box.



TDS72-WPB



TDS75-WPB



TGT79-WPB

Model No.

## TDS72-WPB

86x86x13mm.

Frosted tactile shell with mechanical keys.



### Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200-240V	Gas Boiler	Wi-Fi	External Sensor
TDS72-WPB	✓	✓	✗	✗
TDS72-WIFI-WPB	✓	✓	✓	✗

Model No.

## TDS75-WPB

86x86x15mm.

Glossy panel with touch keys.



### Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200-240V	Gas Boiler	Wi-Fi	External Sensor
TDS75-WPB	✓	✓	✗	✗
TDS75-WIFI-WPB	✓	✓	✓	✗

Model No.

## TGT79-WPB

86x86x15mm.

Glossy panel with touch keys. Negative display screen.



### Selection Table

Model	Power Supply	Application	Recmote Control	Additional
	AC 200-240V	Gas Boiler	Wi-Fi	External Sensor
TGT79-WPB	✓	✓	✗	✗
TGT79-WIFI-WPB	✓	✓	✓	✗

Model No.

# TC38-WPB

86x86x15mm. 2 colors optional. White: glossy panel with silver touch keys. Black: dark mirrored panel with silver touch keys.

Work with Tuya apps   | iOS & Android

Support smart speakers   



TCW38-WPB



TCB38-WPB



## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A

**External material**  
PC+ABS (flame retardant)

**Working environment**  
-5~50°C

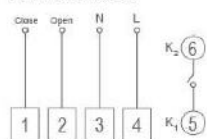
**Set temp. range**  
5~95°C (default 60°C)

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler



## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	AC 200~240V	Gas Boiler	Wi-Fi	External Sensor
TCW38-WPB / TCB38-WPB	✓	✓	✗	✗
TCW38-WIFI-WPB / TCB38-WIFI-WPB	✓	✓	✓	✗

Model No.

# BOT-323W

86x86x27mm. Touch keys. 2 backlight colors optional.



BOT-323W-WH

BOT-323W-BL



## Technical Data

**Power Supply**  
2 x 1.5V AA alkaline battery

**Current Load**  
3A

**Temp. control accuracy**  
±1°C

**Setting temp. range**  
5-99°C (factory default 5-35°C)

**Limiting temp. range**  
5-99°C

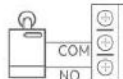
**Power Consumption**  
<0.15W

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler



Screw mounted to wall, no mounting box required

## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	2 x 1.5V AA battery	Gas Boiler	Wi-Fi	External Sensor
BOT-323W-WH	✓	✓	✗	✗
BOT-323W-BL	✓	✓	✗	✗

Model No.

**BOT-313W** 

86x86x27mm. 5 mechanical keys. 2 backlight colors optional.



BOT-313W-WH

BOT-313W-BL



## Technical Data

**Power Supply**  
2 x 1.5V AA alkaline battery

**Current Load**  
3A

**Temp. control accuracy**  
±1°C

**Setting temp. range**  
5-99°C (factory default 5-35°C)

**Limiting temp. range**  
5-99°C

**Power Consumption**  
<0.15W


**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

**Temperature sensor**  
NTC

## Wiring Diagram

For Gas Boiler



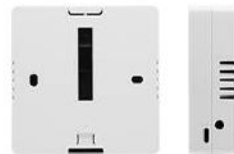
 Screw mounted to wall, no mounting box required

## Selection Table

Model	Power Supply	Application	Remote Control	Additional
	2 X 1.5V AA battery	Gas Boiler	Wi-Fi	External Sensor
BOT-313W-WH	✓	✓	✗	✗
BOT-313W-BL	✓	✓	✗	✗

Model No.

**BOT-R6W**



86x86x24mm. Touch keys.



### Technical Data

**Power supply**  
3 x 1.5V AA alkaline battery  
or Type-C USB cable

**Current load**  
3A (Resistive)

**Temperature sensor**  
NTC

**Power consumption**  
<170 uW

**Temperature accuracy**  
±1°C

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

### Wiring Diagram

For Gas Boiler



Screw mounted  
to wall, no  
mounting box  
required

### Selection Table

Model	Power Supply	Application	Remote Control	Additional
	3 x 1.5V AA battery	Gas Boiler	Wi-Fi	External Sensor
BOT-R6W	✓	✓	✗	✗

Model No.

**BOT-W306**



130x91x21mm.  
Touch keys.



### Technical Data

**Power Supply**  
2 x 1.5V AA alkaline  
batteries

**Current Load**  
3A

**Power Consumption**  
<0.15W

**Setting temp. range**  
5-35°C

**Temp. control accuracy**  
0.5-5°C

**Sensing Element**  
NTC

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

### Wiring Diagram

For Gas Boiler



⊞ Screw mounted to wall,  
no mounting box required

### Selection Table

Model	Power Supply	Application	Remote Control	Additional
	2 x 1.5V AA battery	Gas Boiler	Wi-Fi	External Sensor
BOT-W306	✓	✓	✗	✗

Model No.

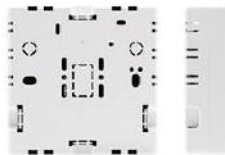
**BOT-R9V**



Work with Tuya apps | IOS & Android

| Zigbee Model Optional

Support smart speakers



86x86x24mm.  
Touch keys.



### Technical Data

**Power Supply**  
3 x 1.5V AA alkaline battery

**Current Load**  
3A

**Power Consumption**  
<0.15W

**Setting temp. range**  
5-99°C

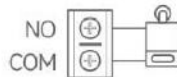
**Temp. control accuracy**  
0.5-5°C

**Sensing Element**  
NTC

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

### Wiring Diagram

For Gas Boiler



Screw mounted to wall,  
no mounting box required

### Selection Table

Model	Power Supply	Application	Remote Control		Additional
	3 x 1.5V AA battery	Gas Boiler	Wi-Fi	Zigbee	External Sensor
BOT-R9V-WIFI	✓	✓	✓	✗	✗
BOT-R9V-ZIGBEE	✓	✓	✗	✓	✗

Model No.

**BOT-W506**



140x86x24mm.  
Touch keys.

Work with Tuya apps IOS & Android

**zigbee** | Zigbee Model Optional

Support smart speakers



BOT-W506-W



BOT-W506-B



### Technical Data

**Power Supply**  
3 x 1.5V AAA alkaline battery  
or Type-C USB cable

**Current Load**  
3A

**Power Consumption**  
<170μW

**Setting temp. range**  
15-60°C (default 35°C)

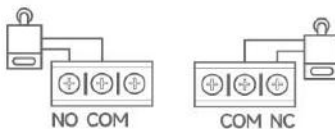
**Temperature calibration**  
-9.9-+9.9°C (default 0°C)

**Sensing Element**  
NTC

**Temperature hysteresis**  
0.5~10°C Adjustable  
(default 1°C)

### Wiring Diagram

For Gas Boiler and ASHP



Normally connect NO and COM terminals to the boiler. Some boilers require COM and NC connections.

Screw mounted to wall,  
no mounting box required

### Selection Table

Model	Power Supply		Application		Remote Control	
	USB type C (5V)	3 X 1.5V AAA battery	Gas Boiler	ASHP	Wi-Fi	Zigbee
BOT-W506W-WIFI	✓	✓	✓	✓	✓	✗
BOT-W506B-WIFI	✓	✓	✓	✓	✓	✗
BOT-506WW-ZIGBEE	✓	✓	✓	✓	✗	✓
BOT-506WB-ZIGBEE	✓	✓	✓	✓	✗	✓
BOT-W506W	✓	✓	✓	✓	✗	✗
BOT-W506B	✓	✓	✓	✓	✗	✗

Model No.

**BOT-R3W**



86x86x20mm.  
Touch keys.

Work with Tuya apps | iOS & Android

Support smart speakers



### Technical Data

**Power Supply**  
3 x 1.5V AAA alkaline battery  
or Type-C USB cable

**Current Load**  
3A

**Power Consumption**  
<170µW

**Setting temp. range**  
15-60°C (default 35°C)

**Temperature calibration**  
-9.9~+9.9°C (default 0°C)

**Sensing Element**  
NTC

**Temperature hysteresis**  
0.5~10°C Adjustable (default  
1°C)

### Wiring Diagram

For Gas Boiler and ASHP



Normally connect NO and COM terminals to the boiler. Some boilers require COM and NC connections.

### Selection Table

Model	Power Supply		Application		Remote Control
	USB type C (5V)	3 X 1.5V AAA battery	Gas Boiler	ASHP	Wi-Fi
BOT-R3W-WIFI	✓	✓	✓	✓	✓
BOT-R3W	✓	✓	✓	✓	✗

Model No.

**BOT-R5W**



86x86x27mm. Touch keys.  
2 backlight colors optional.

Work with Tuya apps | iOS & Android

**zigbee** | Zigbee Model Optional

Support smart speakers



BOT-R5WW



BOT-R5W



### Technical Data

**Power Supply**  
3 x 1.5V AAA alkaline battery  
or Type-C USB cable

**Current Load**  
3A

**Power Consumption**  
<170µW

**Setting temp. range**  
15-60°C (default 35°C)

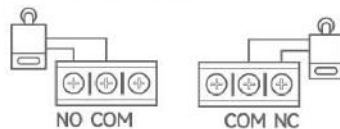
**Temperature calibration**  
-9.9-+9.9°C (default 0°C)

**Sensing Element**  
NTC

**Temperature hysteresis**  
0.5-10°C Adjustable (default  
1°C)

### Wiring Diagram

For Gas Boiler and ASHP



Normally connect NO and COM terminals to the boiler. Some boilers require COM and NC connections.

Screw mounted to wall, no mounting box required

### Selection Table

Model	Power Supply		Application		Remote Control	
	USB type C (5V)	3 X 1.5V AAA battery	Gas Boiler	ASHP	Wi-Fi	Zigbee
BOT-R5W-WIFI	✓	✓	✓	✓	✓	✗
BOT-R5WW-WIFI	✓	✓	✓	✓	✓	✗
BOT-R5W-Zigbee	✓	✓	✓	✓	✗	✓
BOT-R5WW-Zigbee	✓	✓	✓	✓	✗	✓
BOT-R5W	✓	✓	✓	✓	✗	✗
BOT-R5WW	✓	✓	✓	✓	✗	✗

Model No.

**BOT-R8W**

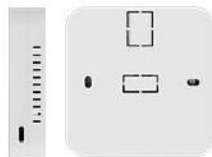


86x86x20mm.  
Touch keys.

Work with Tuya apps iOS & Android

**zigbee** | Zigbee Model Optional

Support smart speakers



**Technical Data**

**Power Supply**  
3 x 1.5V AAA alkaline battery  
or Type-C USB cable

**Current Load**  
3A

**Power Consumption**  
<170µW

**Setting temp. range**  
15-60°C (default 35°C)

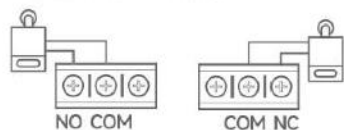
**Temperature calibration**  
-9.9~+9.9°C (default 0°C)

**Sensing Element**  
NTC

**Temperature hysteresis**  
0.5~10°C Adjustable (default  
1°C)

**Wiring Diagram**

**For Gas Boiler and ASHP**



Screw mounted  
to wall, no  
mounting box  
required

Normally connect NO and COM terminals to  
the boiler. Some boilers require COM and NC  
connections.

**Selection Table**

Model	Power Supply		Application		Recmote Control	
	USB type C (5V)	3 X 1.5V AAA battery	Gas Boiler	ASHP	Wi-Fi	Zigbee
BOT-R8W-WIFI	✓	✓	✓	✓	✓	✗
BOT-R8W-Zigbee	✓	✓	✓	✓	✗	✓
BOT-R8W	✓	✓	✓	✓	✗	✗

Model No.

**BOT-R15W**



86x86x20mm.  
Touch keys.

Work with Tuya apps | iOS & Android

| Zigbee Model Optional

Support smart speakers



**Technical Data**

**Power Supply**  
3 x 1.5V AAA alkaline battery  
or Type-C USB cable

**Current Load**  
3A

**Power Consumption**  
<170µW

**Setting temp. range**  
15-60°C (default 35°C)

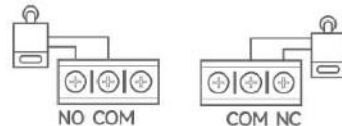
**Temperature calibration**  
-9.9~+9.9°C (default 0°C)

**Sensing Element**  
NTC

**Temperature hysteresis**  
0.5~10°C Adjustable (default  
1°C)

**Wiring Diagram**

**For Gas Boiler and ASHP**



Normally connect NO and COM terminals to the boiler. Some boilers require COM and NC connections.

Screw mounted to wall, no mounting box required

**Selection Table**

Model	Power Supply		Application		Recmote Control	
	USB type C (5V)	3 X 1.5V AAA battery	Gas Boiler	ASHP	Wi-Fi	Zigbee
BOT-R15W-WIFI	✓	✓	✓	✓	✓	✗
BOT-R15W-Zigbee	✓	✓	✓	✓	✗	✓
BOT-R15W	✓	✓	✓	✓	✗	✗

## Gas Boiler Thermostat

There are two types of gas boiler thermostats, wired and wireless.

## Wireless Thermostat for Gas Boiler

The receiver is connected to the boiler and the thermostat is wirelessly connected to the receiver via RF.

Gas boiler with dry contact

AC 230V



Passive connection

3 Batteries



Model No.

## BOT-R7-X



Thermostat 86x95x78mm (Dimensions after installation with holder). Touch keys and knob adjustment. Two colors optional. Receiver 94x85x27mm, with press keys.

Work with Tuya apps   | iOS & Android

Support smart speakers   



BOT-R7W-X



BOT-R7B-X



Mounting Options



Can be wall-mounted or placed on a tabletop.

## Technical Data

### Power Supply

Thermostat: 3 x 1.5V AA alkaline battery or Type-C USB cable  
Receiver: 110~220 VAC

### Current Load

3A

### Temp. control accuracy

±1°C

### Setting temp. range

5-99°C (factory default 5-35°C)

### Limiting temp. range

5-99°C

### Power Consumption

<0.15W

### Temperature hysteresis

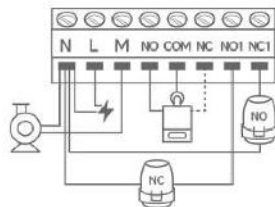
±0.5~±9.9°C Adjustable (default ±1°C)

### Sensing Element

NTC

## Wiring Diagram of the Receiver

For Gas Boiler



## Selection Table

Model	Power Supply			Application	Remote Control	Additional
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AA battery	<Receiver> AC 230V			
BOT-R7W-X	✓	✓	✓	✓	✗	✗
BOT-R7B-X	✓	✓	✓	✓	✗	✗
BOT-R7W-X-WIFI	✓	✓	✓	✓	✓	✗
BOT-R7B-X-WIFI	✓	✓	✓	✓	✓	✗


# BOT-306 Series Gas Boiler Thermostats



Model No.  
**BOT-306RF-WIFI** 

Thermostat: 130x100x100mm (Dimensions after installation with holder). Touch keys.  
Receiver: 85x85x28mm.

Work with Tuya apps or BEOK Home  
 | iOS & Android

Support smart speakers  alexa



Model No.  
**BOT-X306** 

Thermostat: 130x91x21mm. Touch keys.  
Receiver: 85x85x28mm.





## Technical Data

**Working Voltage**  
Thermostat: USB type C (5V)  
Receiver: 220V

**Current Load**  
3A

**Consumption**  
<0.3W

**Temp. control accuracy**  
0.5-5°C

**Setting temp. range**  
5-35°C



## Technical Data

**Working Voltage**  
Thermostat: 2 x 1.5V AA  
alkaline battery  
Receiver: 220V

**Current Load**  
3A

**Consumption**  
<0.3W

**Temp. control accuracy**  
0.5-5°C

**Setting temp. range**  
5-35°C

## Selection Table

Model	Power Supply			Application	Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> Battery power	<Receiver> AC 230V	Gas Boiler	Wi-Fi
BOT-306RF-WIFI	✓	✗	✓	✓	✓

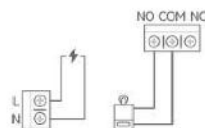
## Selection Table

Model	Power Supply			Application	Remote Control
	<Thermostat> USB power	<Thermostat> 2 X 1.5V AA battery	<Receiver> AC 230V	Gas Boiler	Wi-Fi
BOT-X306	✗	✓	✓	✓	✗

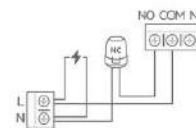


## Wiring Diagram of the Receiver

### Connect to Boiler



### Connect to Actuator



Screw mounted to wall,  
no mounting box required



Model No.

**BOT-R6X**



Thermostat: 86x102x78mm (Dimensions after installation with holder). Touch keys. Receiver: 94x85x27mm.

Work with Tuya apps | iOS & Android

Support smart speakers

**Mounting Options**



Can be wall-mounted or placed on a tabletop.



**Technical Data**

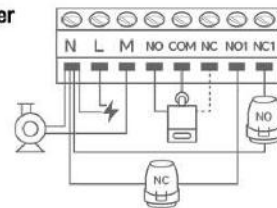
**Power supply**  
Thermostat: 3 x 1.5V AA alkaline battery or Type-C USB cable  
Receiver: 110~220 VAC

**Current load**  
3A (Resistive)  
**Temperature sensor**  
NTC

**Temperature accuracy**  
±1°C  
**Power consumption**  
<170 uW  
**Temperature hysteresis**  
±0.5~±9.9°C Adjustable (default ±1°C)

**Wiring Diagram of the Receiver**

For Gas Boiler



**Selection Table**

Model	Power Supply			Application	Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AA battery	<Receiver> AC 230V	Gas Boiler	Wi-Fi
BOT-R6X	✓	✓	✓	✓	✗
BOT-R6X-WIFI	✓	✓	✓	✓	✓

Model No.

# BOT-506X



Thermostat 140x90x65mm (Dimensions after installation with holder), with touch keys.  
Magnetic base. 2 colors optional. Receiver 94x85x27mm, with press keys.

Work with Tuya apps | iOS & Android

Support smart speakers



BOT-506X-W



BOT-506X-B



**Mounting Options**



Can be wall-mounted or placed on a tabletop.

## Technical Data

**Power Supply**

Thermostat: 3 x 1.5V AAA alkaline battery or Type-C USB cable  
Receiver: 110~220 VAC

**Current Load**

3A

**Sensing Element**

NTC

**Temperature calibration**

-9.9-+9.9°C (default 0°C)

**Set temp. upper limit**

15~60°C Adjustable  
(default 35°C)

**Power Consumption**

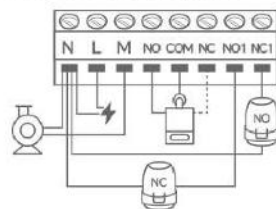
<170µW

**Temperature hysteresis**

0.5~10°C Adjustable  
(default 1°C)

## Wiring Diagram of the Receiver

For Gas Boiler and ASHP



## Selection Table

Model	Power Supply			Application		Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AAA battery	<Receiver> AC 230V	Gas Boiler	ASHP	Wi-Fi
BOT-506X-W-WIFI	✓	✓	✓	✓	✓	✓
BOT-506X-B-WIFI	✓	✓	✓	✓	✓	✓
BOT-506X-W	✓	✓	✓	✓	✓	✗
BOT-506X-B	✓	✓	✓	✓	✓	✗

# BEOK Gas Boiler Thermostat **Wireless**



Model No.

## BOT-R3X



Thermostat: 86x100x70mm (Dimensions after installation with holder), with touch keys. Receiver: 94x85x27mm, with Press keys.

Work with Tuya apps   | iOS & Android

Support smart speakers   



### Mounting Options



Can be wall-mounted or placed on a tabletop.

## Technical Data

### Power supply

Thermostat: 3 x 1.5V AAA alkaline battery or Type-C USB cable  
Receiver: 110~220 VAC

### Current load

3A (Resistive)

### Temperature sensor

NTC

### Temperature calibration

-9.9~+9.9°C (default 0°C)

### Temperature hysteresis

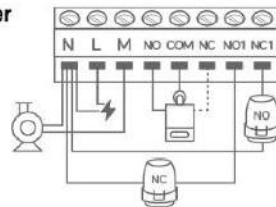
0.5~10°C Adjustable (default 0.5°C)

### Set temp. upper limit

15~60°C Adjustable (default 35°C)

## Wiring Diagram of the Receiver

For Gas Boiler and ASHP



## Selection Table

Model	Power Supply			Application		Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AAA battery	<Receiver> AC 230V	Gas Boiler	ASHP	Wi-Fi
BOT-R3X	✓	✓	✓	✓	✓	✗
BOT-R3X-WIFI	✓	✓	✓	✓	✓	✓

Web: [www.b-design.hr](http://www.b-design.hr)

Mail: [info@b-design.hr](mailto:info@b-design.hr)

Mob: +385(0)91 761 3070

# BEOK Gas Boiler Thermostat Wireless



Model No.

## BOT-R8X



Thermostat: 86x100x70mm (Dimensions after installation with holder), with touch keys. Receiver: 94x85x27mm, with Press keys.

Work with Tuya apps | IOS & Android

Support smart speakers

### Technical Data

#### Power supply

Thermostat: 3 x 1.5V AAA alkaline battery or Type-C USB cable  
Receiver: 110~220 VAC

#### Current load

3A (Resistive)

#### Temperature sensor

NTC

#### Temperature calibration

-9.9~+9.9°C (default 0°C)

#### Temperature hysteresis

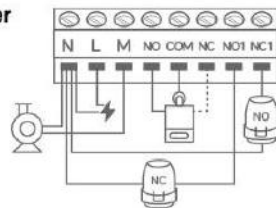
0.5~10°C Adjustable (default 0.5°C)

#### Set temp. upper limit

15~60°C Adjustable (default 35°C)

### Wiring Diagram of the Receiver

For Gas Boiler and ASHP



### Mounting Options



Can be wall-mounted or placed on a tabletop.



### Selection Table

Model	Power Supply			Application		Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AAA battery	<Receiver> AC 230V	Gas Boiler	ASHP	Wi-Fi
BOT-R8X	✓	✓	✓	✓	✓	✗
BOT-R8X-WIFI	✓	✓	✓	✓	✓	✓



Model No.

**BOT-R15X**

Thermostat: 86x100x70mm (Dimensions after installation with holder), with touch keys. Receiver: 94x85x27mm, with Press keys.

Work with Tuya apps | iOS & Android

Support smart speakers

## Technical Data

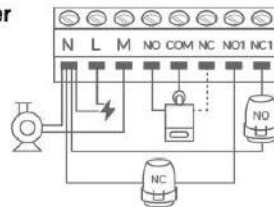
**Power supply**  
Thermostat: 3 x 1.5V AAA alkaline battery or Type-C USB cable  
Receiver: 110~220 VAC

**Current load**  
3A (Resistive)  
**Temperature sensor**  
NTC

**Temperature calibration**  
-9.9~+9.9°C (default 0°C)  
**Temperature hysteresis**  
0.5~10°C Adjustable (default 0.5°C)  
**Set temp. upper limit**  
15~60°C Adjustable (default 35°C)

## Wiring Diagram of the Receiver

For Gas Boiler and ASHP



Mounting Options



Can be wall-mounted or placed on a tabletop.

## Selection Table

Model	Power Supply			Application		Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AAA battery	<Receiver> AC 230V	Gas Boiler	ASHP	Wi-Fi
BOT-R15X	✓	✓	✓	✓	✓	✗
BOT-R15X-WIFI	✓	✓	✓	✓	✓	✓

Model No.

# BOT-R5X



Thermostat: 86x100x70mm (Dimensions after installation with holder), with touch keys.  
Two colors optional. Receiver: 94x85x27mm, with Press keys.

Work with Tuya apps | iOS & Android

Support smart speakers



**BOT-R5X-B**



**BOT-R5X-W**



**Mounting Options**

Can be wall-mounted or placed on a tabletop.

## Technical Data

**Power supply**

Thermostat: 3 x 1.5V  
AAA alkaline battery or  
Type-C USB cable  
Receiver: 110~220 VAC

**Current load**

3A (Resistive)

**Temperature sensor**

NTC

**Temperature calibration**

-9.9~+9.9°C (default 0°C)

**Temperature hysteresis**

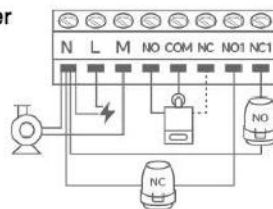
0.5~10°C Adjustable  
(default 0.5°C)

**Set temp. upper limit**

15~60°C Adjustable  
(default 35°C)

## Wiring Diagram of the Receiver

For Gas Boiler  
and ASHP



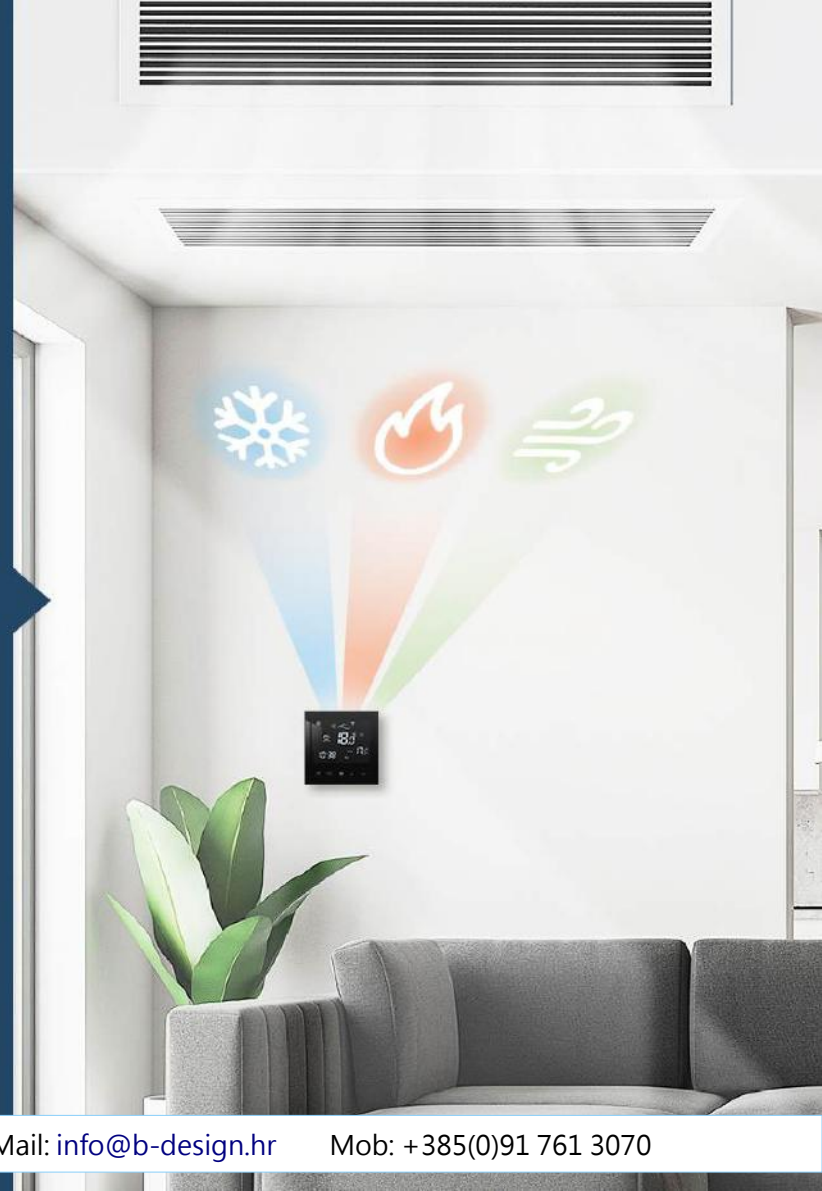
## Selection Table

Model	Power Supply			Application		Remote Control
	<Thermostat> USB type C (5V)	<Thermostat> 3 X 1.5V AAA battery	<Receiver> AC 230V	Gas Boiler	ASHP	Wi-Fi
BOT-R5X-W-WIFI	✓	✓	✓	✓	✓	✓
BOT-R5X-B-WIFI	✓	✓	✓	✓	✓	✓
BOT-R5X-W	✓	✓	✓	✓	✓	✗
BOT-R5X-B	✓	✓	✓	✓	✓	✗

# 3



## Fan Coil Thermostat

Fan coil thermostats are divided into four-control and two-control.



# TDS Series Thermostats

Work with Tuya apps or BEOK AC    | iOS & Android

Support smart speakers  

## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A~5A

**External material**  
PC+ABS (flame retardant)

**Power consumption**  
<0.5W

**Set temp. range**  
10~40°C

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

**Temperature sensor**  
NTC



## Wiring Diagram

**For 2-controls  
Fan Coil**



**For 4-controls  
Fan Coil**



TGT70-AC



TDS21-AC



TDS23-AC

Model No.

# TGT70-AC

86x86x16mm.

Glass screen with touch keys.



## Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200-240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TGT70-AC2	✓	✓	✗	✗
TGT70-WIFI-AC2	✓	✓	✗	✓
TGT70-AC4	✓	✗	✓	✗
TGT70-WIFI-AC4	✓	✗	✓	✓

Model No.

# TDS21-AC

86x86x15mm.

Glossy panel with touch keys.



TDS21-AC-WW

TDS21-AC-BL

## Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200-240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TDS21-AC2-WW	✓	✓	✗	✗
TDS21WIFI-AC2-WW	✓	✓	✗	✓
TDS21-AC2-BL	✓	✓	✗	✗
TDS21WIFI-AC2-BL	✓	✓	✗	✓
TDS21-AC4-WW	✓	✗	✓	✗
TDS21WIFI-AC4-WW	✓	✗	✓	✓
TDS21-AC4-BL	✓	✗	✓	✗
TDS21WIFI-AC4-BL	✓	✗	✓	✓

Model No.

# TDS23-AC

86x86x15mm.

Glossy panel with touch keys.



TDS23-AC-WW

TDS23-AC-BL

## Selection Table

Model	Power Supply	Application		Recmote Control
	AC 200-240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TDS23-AC2-WW	✓	✓	✗	✗
TDS23WIFI-AC2-WW	✓	✓	✗	✓
TDS23-AC2-BL	✓	✓	✗	✗
TDS23WIFI-AC2-BL	✓	✓	✗	✓
TDS23-AC4-WW	✓	✗	✓	✗
TDS23WIFI-AC4-WW	✓	✗	✓	✓
TDS23-AC4-BL	✓	✗	✓	✗
TDS23WIFI-AC4-BL	✓	✗	✓	✓



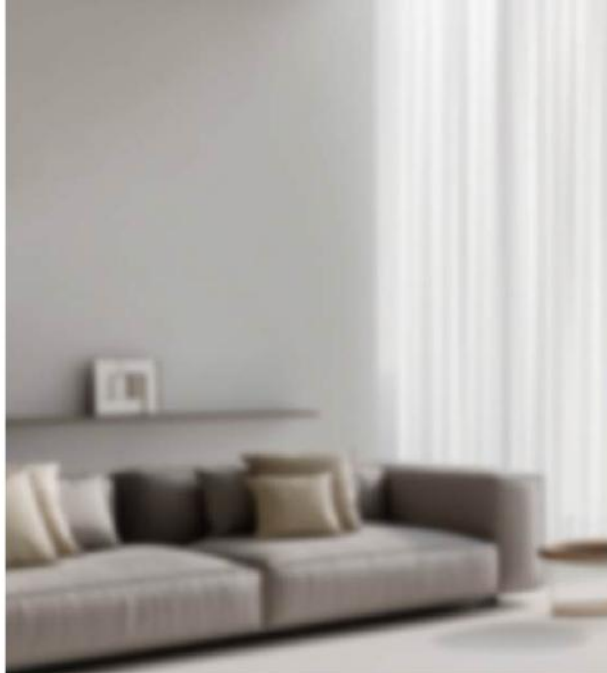
Model No.  
**TGP51G-AC**



86x86x13mm. Glass screen, 4 touch keys with silver icons.

Work with Tuya apps or BEOK AC    | iOS & Android

Support smart speakers  



## Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A~5A

**External material**  
PC+ABS (flame retardant)

**Accuracy**  
±1°C

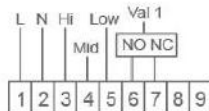
**Set temp. range**  
10~40°C

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

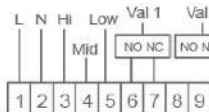
**Temperature sensor**  
NTC

## Wiring Diagram

For 2-controls  
Fan Coil



For 4-controls  
Fan Coil



Suitable for  
standard 86mm  
junction box or  
European  
60mm box.

## Selection Table

Model	Power Supply	Application		Remote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TGP51G-AC2	✓	✓	✗	✗
TGP51G-WIFI-AC2	✓	✓	✗	✓
TGP51G-AC4	✓	✗	✓	✗
TGP51G-WIFI-AC4	✓	✗	✓	✓

Model No.

## TOL43-AC

86x86x13.3mm. Large LCD screen with mechanical keys.



TOL43-AC-W



TOL43-AC-B



### Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A~5A

**External material**  
PC+ABS (flame retardant)

**Accuracy**  
±1°C

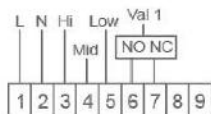
**Set temp. range**  
10~40°C

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

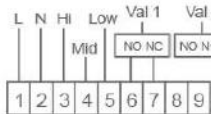
**Temperature sensor**  
NTC

### Wiring Diagram

For 2-controls  
Fan Coil



For 4-controls  
Fan Coil



Suitable for  
standard 86mm  
junction box or  
European  
60mm box.

### Selection Table

Model	Power Supply	Application		Remote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TOL43-AC2-W	✓	✓	✓	✗
TOL43-AC2-B	✓	✓	✓	✗
TOL43-AC4-B	✓	✗	✗	✗
TOL43-AC4-W	✓	✗	✗	✗

Model No.

## TOL63R-AC

86x86x13.3mm. Large LCD screen with mechanical keys.



TOL63R-AC-W



TOL63R-AC-B



### Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A~5A

**External material**  
PC+ABS (flame retardant)

**Accuracy**  
±1°C

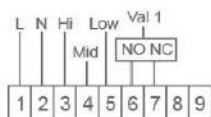
**Set temp. range**  
10~40°C

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

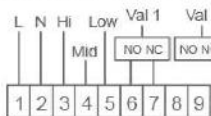
**Temperature sensor**  
NTC

### Wiring Diagram

For 2-controls  
Fan Coil



For 4-controls  
Fan Coil



Suitable for  
standard 86mm  
junction box or  
European  
60mm box.

### Selection Table


Model	Power Supply	Application		Remote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TOL63R-AC2-W	✓	✓	✗	✗
TOL63R-AC2-B	✓	✓	✗	✗
TOL63R-AC4-W	✓	✗	✓	✗
TOL63R-AC4-B	✓	✗	✓	✗

Model No.

## TOL313-AC

86x86x13.3mm. Large LCD screen with mechanical keys.

Work with Tuya apps or BEOK AC    | iOS & Android

Support smart speakers  alexa



TOL313-AC-W



TOL313-AC-B



### Technical Data

**Power supply**  
AC200~240V; 50/60Hz

**Load current**  
3A~5A

**External material**  
PC+ABS (flame retardant)

**Accuracy**  
±1°C

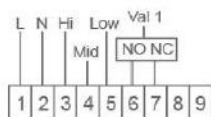
**Set temp. range**  
10~40°C

**Temperature hysteresis**  
±0.5~±9.9°C Adjustable  
(default ±1°C)

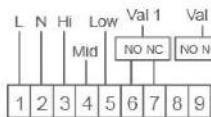
**Temperature sensor**  
NTC

### Wiring Diagram

For 2-controls  
Fan Coil



For 4-controls  
Fan Coil



  
Suitable for  
standard 86mm  
junction box or  
European  
60mm box.

### Selection Table

Model	Power Supply	Application		Remote Control
	AC 200~240V	2-pipe Fan Coil	4-pipe Fan Coil	Wi-Fi
TOL313-AC2-W	✓	✓	✗	✗
TOL313-WIFI-AC2-W	✓	✓	✗	✓
TOL313-AC4-W	✓	✗	✓	✗
TOL313-WIFI-AC4-W	✓	✗	✓	✓
TOL313-AC2-B	✓	✓	✗	✗
TOL313-WIFI-AC2-B	✓	✓	✗	✓
TOL313-AC4-B	✓	✗	✓	✗
TOL313-WIFI-AC4-B	✓	✗	✓	✓

# Sustavi grijanja, hlađenja i regulacije.

Osiguravamo kompletnu logističku i tehničku podršku za **BEOK sustave** na tržištu Republike Hrvatske.



Vaš partner za napredne **HVAC sustave**



**Brza isporuka:** Osiguran lager u Novom Marofu (isporuka 24-48h).

**Tehničko savjetovanje:** Pomoć pri odabiru opreme i izradi specifikacija.

**Jamstvo "Bez čekanja":** Prioritetna zamjena uređaja u slučaju kvara.

**B2B Portal:** Online narudžbe, VPC cjenici i uvid u stanje zaliha za partnere.

**Kontakt podaci:**

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Email: **info@b-design.hr**

Web: **www.b-design.hr | www.servis-hr.eu**